

## Tesselation 14 (N)

"You must construct additional pylons."

Suite: Tesselation Party!

by Arya Akhavan (October 2012)

Angles for R.I. = 1.720

53 + 14 girdles = 67 facets

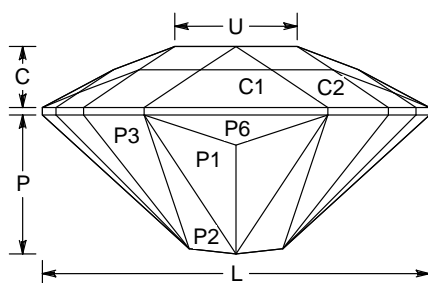
2-fold, mirror-image symmetry

96 index

L/W = 1.280 T/W = 0.466 U/W = 0.405

P/W = 0.460 C/W = 0.202

Vol./W<sup>3</sup> = 0.345



### PAVILION

P1	41.53°	01-47-49-95	Cut to centerpoint.
P2	40.64°	02-46-50-94	Meet at culet.
G1	90.00°	96-48	Set stone width.
P3	41.07°	08-40-56-88	Meet P1, P2, G1
P4	41.81°	16-32-64-80	Meet P2, P3
P5	42.90°	21-27-69-75	Meet P2, P3, P4
P6	47.01°	96-48	Meet P1, P2, G1, P3 (level girdle)
G2	90.00°	08-40-56-88	Level girdle.
G3	90.00°	16-32-64-80	Level girdle.
G4	90.00°	21-27-69-75	Level girdle.

### CROWN

C1	63.50°	96-48	Set girdle width.
C2	40.34°	08-40-56-88	Level girdle.
C3	33.16°	16-32-64-80	Level girdle.
C4	32.57°	21-27-69-75	Level girdle.
C5	28.22°	22-26-70-74	Meet G4, C4
C6	24.80°	20-28-68-76	Meet C3, C4, C5
C7	18.09°	08-40-56-88	Meet C2, C3, C6
C8	20.67°	96-48	Meet C1, C2, C7
C9	20.67°	24-72	Meet C5, C6
T	0.00°	Table	Meet C6, C7, C9; C7, C8

I'm not a very big fan of keeled designs, but this crown design kinda forced my hand. It turned out pretty nicely, though - the stone has great light return, an interesting reflection pattern, and it's decent for recutting spinels and corundum. Works in any material from quartz to rutile (RI = 1.54 - 2.62) with no changes.

Suggested length = 6-10 mm

C:\Program Files (x86)\GemCAD\Designs (Mine)\Works in Progress\Tesselations\Tesselation 14 (N) - You Must Construct Addition